

# **Exhibit A**

# Curriculum Vitae

**Guy Barrington MARKS**

B Med Sc *NSW*, MBBS Hons 2(2) *NSW*, PhD *Syd*, MRCP (UK), FRACP, FAFPHM

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## Personal details

Australian citizen,

Born 4<sup>th</sup> May, 1957

Male

## Current salaried appointments

NHMRC Practitioner Fellow and  
Head, Epidemiology Group  
Woolcock Institute of Medical Research

Senior Staff Specialist Physician,  
Department of Respiratory Medicine  
Liverpool Health Service

## Other current positions

Director, Australian Centre for Asthma Monitoring  
(a collaborating unit of the Australian Institute of Health and Welfare)

Conjoint Professor, School of Public Health and Community Medicine and  
Department of Medicine, South West Sydney Clinical School  
University of New South Wales

Director of Respiratory Medicine, Sydney South West Area Health Service (Western Zone)

Clinical Professor, Central Clinical School (Discipline of Medicine) and School of Public Health,  
Faculty of Medicine, University of Sydney

Project Leader, Cooperative Research Centre for Asthma

Chief Investigator, NHMRC Centre for Clinical Research Excellence in Respiratory and Sleep  
Medicine

## Scientific Discipline Involvement

### Committees

#### International

1. Member, Respiratory Disease Questionnaire ad hoc committee, American Thoracic Society (1998- )
2. Co-ordinator, Epidemiology program, World Asthma Meeting, Barcelona, (1998)
3. Member, International Union Against Tuberculosis and Lung Disease Working group on asthma guidelines for children in low income countries (1998)
4. Member, Program Committee, Environmental and Occupational Health Assembly, American Thoracic Society (2001- 02)
5. Burden of Obstructive Lung Disease (BOLD) International Advisory Panel (2003-)
6. Councillor, Asia Pacific Society for Respiriology (2002-)
7. Associate Editor, International Journal of Tuberculosis and Lung Diseases (2003-)
8. Member, Project Review Panel for FIDELIS project, International Union Against Tuberculosis and Lung Disease (2003-6)
9. Member, Editorial Board of Respiriology, official journal of the Asia Pacific Society of Respiriology (2004-6)
10. Member, International Union Against Tuberculosis and Lung Disease / Asthma Drug Facility Clinical Advisory Group (2007-)
11. Member, International Committee, American Thoracic Society, 2008-

#### Local and National

1. Co-convenor, Population Health Special Interest Group of the Thoracic Society of Australia and New Zealand (1997-2002)
2. Chairperson, Asthma Prevention Working Group, NSW Health Department (1997-98)
3. Chairperson, SWSAHS Advisory Committee on Respiratory Disease (1999-)
4. Convenor, SWSAHS committee for planning Area respiratory services (2000-2001)
5. Director, Community Health and Anti-tuberculosis Association (CHATA) (1998-2004)
6. Member of the Asthma Expert Panel, NSW Health Department (1997-2000)
7. Member, Asthma Data Working Group, NSW Health Department (1998-2000)
8. Member, Clinical Research Subcommittee, Research Awards Advisory Committee, Community Health and Anti-tuberculosis Association (1998-2004)
9. Member, Respiratory Infectious Diseases Consultative Group, Australian Lung Foundation (1998-2001)
10. Member, Director-General's Clinical Advisory group, NSW Health Department (1997-2000)
11. Member, NSW Health Department Tuberculosis Advisory Committee (1999-)
12. Member, NSW Health Department committee on Multi-drug resistant tuberculosis (1999-)
13. Member, Research Training Committee, South Western Sydney Area Health Service (1999-2003)
14. Member, Respiratory Clinical Expert Reference Committee, NSW Department of Health (2000-01)
15. Member, NHMRC Grant Review Panel 3B (Respiratory/Foetal/Paediatric) 2001, 2002
16. Member, National Asthma Reference Group, Evaluation sub-group, 2002-3

17. Chairperson, National Asthma Council Committee on Complementary and Alternative Medicines, 2003-4
18. Member, Australian Lung Foundation Evaluation Committee for the COPDX program (2003-4)
19. Member, Steering Committee, GlaxoSmithKline Australian Asthma Survey (2003-4)
20. Member, SWSAHS Clinical Council (2002-2004)
21. Member, Asthma Health Promotion and Programs Committee, Asthma NSW (2006 -)
22. Member, Dept of Health and Ageing, National Asthma Strategy Expert Group (2008-)

### **Professional Organisation Memberships**

1. Fellow, Royal Australasian College of Physicians
2. Fellow, Australasian Faculty of Public Health Medicine
3. Member, Royal College of Physicians, London
4. Member, Thoracic Society of Australia and New Zealand
5. Member, American Thoracic Society
6. Member, International Union Against Tuberculosis and Lung Disease
7. Member, Asia-Pacific Society for Respiriology
8. Member, National Association of Research Fellows of NHMRC (NARF)
9. Member, Doctors Reform Society

### **Previous appointments**

#### **Academic / Research**

- |             |   |
|-------------|---|
| 2000 – 2007 | Conjoint Associate Professor, Faculty of Medicine, University of New South Wales          |
| 2000 – 2007 | Honorary Associate Professor, Faculty of Medicine, University of Sydney                   |
| 1994 – 2007 | Conjoint Senior Lecturer, Faculty of Medicine, University of New South Wales              |
| 1998 – 2000 | Senior Lecturer, Department of Medicine, University of Sydney,<br>(appt date: 20/10/1998) |

#### **Clinical**

- |             |  |
|-------------|--|
| 1994 – 2007 | Director, Department of Respiratory Medicine, Liverpool Hospital |
|-------------|--|

## **Academic Record**

**MBBS Honours Class 2 Division 2**, University of New South Wales

Enrolled 1975 - 1980, degree awarded 1981

**Bachelor of Medical Science**, University of New South Wales

Undertaken as a “Miscellaneous Student” 1978, School of Community Medicine

Degree awarded 1980

**Doctor of Philosophy**, University of Sydney

Enrolled 1989 to 1992, Department of Medicine.

Degree awarded 1993

Thesis title: "Assessment of exposures and outcomes in asthma"

## **Awards, Scholarships and Fellowships.**

- Alumni Award for Achievement, University of NSW. 1981
- NSW Department of Health Postgraduate Medical Research Scholarship, 1989.
- NHMRC Postgraduate Medical Research Scholarship, 1990-2.
- Norman Rose Memorial Travelling Scholarship, Sydney Hospitaliers, 1992
- Lillian Roxon Memorial Travel Grant, Asthma Foundation of Victoria, 1992
- Cottrell Fellowship, Royal Australasian College of Physicians, 1992-3.
- Travelling Fellowship, Asthma Foundation of NSW, 1992-4
- Rolf Edgar Lake Research Fellow, University of Sydney, 1997-2000
- NHMRC Practitioner Fellowship, 2001-2010
- Medical Research Media Award, Research Australia, 2006
- European Respiratory Society Visiting Professor, 2008

## Local, National and International Profile

### Invited Speaker at International Meeting

- 1) "Measurement of perception in patients with asthma". Postgraduate course, European Respiratory Society, Stockholm, September, 1996
- 2) "Quality of life in asthma." International Paediatric Respiratory Congress, Sydney, March, 1997
- 3) "Mite elimination: Effect on Asthma." House Dust Mite: Its Biology and Role in Allergy. An International Scientific Workshop, with a focus on Norway and the Scandinavian countries. Oslo, Norway, 4<sup>th</sup> - 7<sup>th</sup> September, 1997
- 4) "Role of bacterial and mycobacterial infections in asthma" Asia Pacific Society for Respiratory Congress, Sydney, October, 1998
- 5) "Interventions for the prevention of asthma". Symposium at World Congress of the International Union Against Tuberculosis and Lung Disease. Bangkok, November, 1998
- 6) "How to measure the cost of asthma management". Symposium at World Congress of the International Union Against Tuberculosis and Lung Disease. Bangkok, November, 1998
- 7) "Can we improved the cost-effectiveness of asthma management" Symposium at World Congress of the International Union Against Tuberculosis and Lung Disease. Bangkok, November, 1998
- 8) Plenary session reporting on Working Groups, World Asthma Meeting, Barcelona, December, 1998
- 9) "The incidence of tuberculosis in a cohort of South East Asian refugees arriving in Australia, 1984 to 1994." Asia Pacific Society for Respiratory Workshop at the Japan Respiratory Society, Hiroshima, March 2000
- 10) "Practical allergen avoidance in infancy" Breakfast session at the International Congress on Allergology and Clinical Immunology, Sydney, October, 2000
- 11) "The Clinician Factor: The Effect of Practice Patterns on Asthma Management", at Mini-symposium, American Thoracic Society International Scientific Meeting, San Francisco, May 2001
- 12) "Lung function growth from childhood to young adult life: findings from the Belmont cohort study." Symposium presentation, American Thoracic Society International Scientific Meeting, Atlanta, May 2002 (delivered, in my absence, by Wei Xuan).
- 13) "Childhood asthma in the market economies". Symposium presentation, World Conference on Lung Health, International Union Against Tuberculosis and Lung Disease (IUATLD), Montreal, October, 2002
- 14) "Ann Woolcock's outstanding contribution to the study of asthma." Symposium presentation, World Conference on Lung Health, International Union Against Tuberculosis and Lung Disease (IUATLD), Montreal, October, 2002
- 15) Symposium on infant cohort studies. Wellington School of Medicine, Wellington, NZ. 8<sup>th</sup>-9<sup>th</sup> August, 2003.
- 16) "Public health approaches to the problems of asthma and COPD". Ann J Woolcock Memorial Lecture. Plenary lecture at the 8<sup>th</sup> Asia Pacific Society for Respiratory Congress, Kuala Lumpur, Malaysia, 1<sup>st</sup> Dec 2003
- 17) Cost effectiveness of asthma treatment. World Congress on Lung Health, International Union Against Tuberculosis and Lung Disease, Paris, 4<sup>th</sup> November 2006
- 18) Global and geographical variation in the prevalence of COPD. World Congress on Lung Health, International Union Against Tuberculosis and Lung Disease, Paris, 3<sup>rd</sup> November, 2006
- 19) Evidenced-based approach to reducing the burden of asthma. Invited Lecture, Ottawa, 28<sup>th</sup> May, 2007

- 20) Australian experience with monitoring health outcomes. Keynote address at “Measuring Respiratory Disease Outcomes” symposium, hosted by Hospital for Sick Children, Toronto, Canada, 16<sup>th</sup> May, 2008
- 21) Presentation at Respiratory Research Rounds, Hospital for Sick Children, Toronto, Canada, 26<sup>th</sup> May, 2008
- 22) "Evidence-based strategies for the reducing the burden of asthma in populations: what works and what doesn't". Presentation at Respiratory Grand Rounds, Royal Brompton Hospital and National Heart & Lung Institute, Imperial College, London, 30<sup>th</sup> May, 2008
- 23) Presentation at Respiratory Dept Research Meeting, Academic Medical Center, Amsterdam, Netherlands. 3<sup>rd</sup> July, 2008

**Invited Speaker at Major National Meeting**

- 24) Air pollution seminar. Clean Air Society and the Thoracic Society of Australia and NZ (Victorian Branch). 1992.
- 25) Workshop on oxidant pollution. Clean Air Society and the Environment Protection Authority of Victoria. 1 July, 1992.
- 26) Evaluating new respiratory drugs: role of quality of life measurement. Thoracic Society of Australia and NZ symposium, December 1994, Sydney.
- 27) “Adverse respiratory health effects of air pollution.” Invited contribution. “Our Health - Our Environment” AMA Forum, Canberra, 20th October, 1995
- 28) “Asthma: why is it so common in Australia and New Zealand.” Invited contribution. Annual Scientific Meeting, Royal Australasian College of Physicians, Canberra, 1996
- 29) “How does air pollution affect respiratory health?” Invited contribution. NSW Health and NSW Environment Protection Authority symposium, Sydney, June, 1996.
- 30) “Air pollution and public health”. AMA Conference on Air Pollution and Health, The Facts. Canberra 10th November, 1997
- 31) “Atmospheric particles and asthma” Seminar on Fine Particles, Clean Air Society of Australia and New Zealand, Leura, 4th December, 1998
- 32) “Links between infection & allergy: how robust is the epidemiological evidence?” Asthma Special Interest Group Symposium. Annual Scientific Meeting, Thoracic Society of Australia and New Zealand. Canberra, 2nd March, 1999
- 33) “The TBU - assessment of infected migrants once in Australia”. Symposium of tuberculosis in migrants. Annual Scientific Meeting, Thoracic Society of Australia and New Zealand, Canberra, 28th February, 1999
- 34) “Measurement of quality of life”. Plenary session at Advanced Course, Thoracic Society of Australia and NZ. Coolumb, September, 1999
- 35) “The role of BCG vaccination in the prevention and control of tuberculosis”. TB in the New Millennium Conference, Australian Society for Microbiology, Cairns, 14th – 18th July, 2000
- 36) “Measuring Quality of Life in Clinical Practice” Airways 2000 workshop, Noosa, Qld. 28th – 29th July, 2000
- 37) “Community acquired pneumonia: burden of illness” Australian Lung Foundation Respiratory Infectious Diseases Consultative Group Workshop, Sydney 3rd – 4th August, 2001
- 38) “Childhood asthma prevention study – preliminary results.” CRC for Asthma Conference, Melbourne, 28th November, 2001
- 39) “COPD, dyspnoea, and wheezing in the elderly patient.” The General Practitioner Conference and Exhibition, Homebush Bay, Sydney 26th May, 2002.
- 40) “Asthma: natural history and risk factors” Australasian Society of Clinical Immunology and Allergy Satellite Meeting, Worrina Cove, SA. 30th September, 2002



- 41) "Clinical importance of allergen exposure in asthma" Australasian Society of Clinical Immunology and Allergy Satellite Meeting, Wirrina Cove, SA. 30th September, 2002
- 42) "Tuberculin survey among Australian-born children of SE Asian migrants living in south western Sydney" Australian Society of Microbiology Mycobacteriology SIG, Westmead, NSW 3rd February, 2003
- 43) "The impact and burden of asthma". Keynote address. Australian Asthma Conference, Melbourne, 23rd February, 2004.
- 44) "Tuberculosis". Lecture to Advanced Trainees Short Course, Thoracic Society of Australia and New Zealand, Sydney, 20th March, 2004
- 45) "Nontuberculous Mycobacterial Disease". Meet the Expert Breakfast Session, Thoracic Society of Australia and New Zealand, Sydney, 24th March, 2004
- 46) "Health effects of Adverse Air Quality", Invited speaker at Clean Air Forum, NSW Department of Environment and Conservation, Sydney, 17th November, 2004
- 47) "Environmental factors and gene-environment interactions in the aetiology of asthma", Invited Speaker at Symposium on Early Life Origins of Respiratory Disease" at Australian Health and Medical Research Conference, Sydney, 23rd – 26th November, 2004
- 48) "Gaseous pollutants". Presentation to working group on Indoor Air Quality, Australian Department of Environment and Heritage, Canberra, 2nd December, 2004
- 49) "Prevention of Asthma" Plenary presentation at Asthma Australia Conference, Adelaide, 24<sup>th</sup> October, 2006

#### **Local and National Invited Presentations**

1. "Childhood asthma prevention study" Back to the future: a family centred approach, Division of Women's and Child Health, Liverpool Health Service, 22<sup>nd</sup> July, 1998
2. "Tuberculosis in refugees." Centre for Health Equity Training Research and Evaluation, South Western Sydney Area Health Service. 7<sup>th</sup> August, 1998
3. Tuberculosis. Seminar on Infectious Disease. South West Sydney Area Health Service. Liverpool, 22<sup>nd</sup> February, 1999
4. "Tuberculosis in refugees screened at Liverpool Hospital, 1984 to 1994". Tuberculosis Research Meeting, Prince of Wales Hospital, Randwick NSW September, 1999
5. "Keeping your house in order: housing design and asthma prevention". Dean's Lecture. University of Sydney, 24th November, 1999
6. "Update on asthma management." Liverpool Division of General Practice, Liverpool NSW. 23<sup>rd</sup> September, 2002
7. "Update on TB epidemiology". Thoracic Society of Australia and NZ, NSW Branch, 19<sup>th</sup> August 2003.
8. "Differentiating asthma and COPD. COPDX guidelines" Fairfield Division of General Practice, 21<sup>st</sup> August, 2003
9. "Uses of Pharmaceutical Benefits Scheme data to investigate asthma management and its outcomes", Australian Institute of Health and Welfare seminar, 14<sup>th</sup> November, 2006
10. "Thunderstorm asthma and update on management of asthma" Riverina Division of General Practice, Wagga Wagga, 3<sup>rd</sup> April 2007
11. "Tools for information needs assessment and monitoring" AIHW/ACAM workshop on Occupational Asthma, Canberra, 14<sup>th</sup> – 15<sup>th</sup> August, 2008

#### **International Session Chairing**

1. Workshop on Asthma Management Plans, Asia Pacific Society for Respiriology, Singapore, July 1997 (group leader)

2. Epidemiology Working Group, World Asthma Meeting, Barcelona, 1998 (co-convenor)
3. Poster Discussion Session, International Congress on Allergology and Clinical Immunology, Sydney, October, 2000
4. Mini-symposium on Asthma Management, American Thoracic Society International Scientific Meeting, San Francisco, May 2001
5. Poster session, 8<sup>th</sup> Asia Pacific Society for Respiratory Congress, Kuala Lumpur, Malaysia, December, 2003

#### **Local and National Session Chairing**

6. Thoracic Society of Australia and New Zealand, Annual Scientific Meetings 1997, 1998, 1999 and 2000, 2002, 2007
7. Asthma Foundation Workshop, Sydney 1998, 1999
8. Respiratory Infectious Diseases Consultative Group Workshop on Viruses and Asthma, Sydney, November, 1999

#### **International visits**

The following visits were undertaken during my sabbatical leave, May to October, 2008

- Visitor, Department of Respiratory Medicine, Hospital for Sick Children, Toronto, Canada. 26<sup>th</sup> May, 2008. Host: Dr Sharon Dell
- Visitor, Montreal Chest Institute, Montreal Canada. 23<sup>rd</sup> May, 2008. Host: Dr Dick Menzies
- Visiting Professor, National Heart and Lung Institute, Imperial College, London. 2<sup>nd</sup> to 27<sup>th</sup> June, 2008 (ERS Visiting Professorship): Host: Professor Peter Burney
- Visitor, Department of Respiratory Medicine, Charing Cross Hospital, London. 16<sup>th</sup> June, 2008. Host: Professor Martyn Partridge
- Visitor, Department of Respiratory Medicine and Allergy, Wythenshawe Hospital and University of Manchester, Manchester, UK. 25<sup>th</sup> June, 2008. Host: Professor Adnan Custovic
- Visiting Fellow, Institute of Risk Assessment Sciences, University of Utrecht, Utrecht, Netherlands. 30<sup>th</sup> June to 11<sup>th</sup> July, 2008. Host: Professor Bert Brunekreef
- Visitor, Department of Respiratory Medicine, Academic Medical Center (AMC), Amsterdam, Netherlands. 3<sup>rd</sup> July 2008. Host: Professor Peter Sterk.

## Post-graduate and Undergraduate teaching

### Post-graduate supervision

#### Post-doctoral Fellows

Gea De Meer	2002 - 2003
Catarina Almqvist	2004 - 2007

#### Completed PhD supervision

Michelle Haby:	graduated 1998	Associate supervisor (last year)
	Risk factors for asthma and atopy in preschool children	
Cheryl Salome	1997-2001	Associate supervisor
	The perception of breathlessness during induced airway narrowing	
Sara Downs	1997-2001	Associate supervisor
	Asthma in rural Australia and the clinical importance of Alternaria	
Anup Desai	2000-2003	Associate supervisor
	Obstructive sleep apnoea and driver performance: prevalence, correlates, and implications for driver fatigue	
Brett Toelle	1997-2003	Associate supervisor
	Factors associated with non-adherence to prescribed asthma medication	
Nguyen Nhat Linh	2002-2006	Supervisor
	Epidemiology and control of tuberculosis in New South Wales	

#### Ongoing PhD supervision

Christine Cowie	2006-	Supervisor
Lydia Makare	2006-	Associate supervisor

(All above at University of Sydney).

#### Completed other supervision

Seham Girghis, Public Health Officer, NSW Department of Health, 1998-99, Supervisor  
 Phan Thai, Visiting Fellow in Respiratory Medicine, 1998, Supervisor  
 Robyn Paton, Master of Community Health, Charles Sturt University, 1998/99, external supervisor  
 Adrian Chung, Honours in Medicine, University of Tasmania, 1999, Supervisor  
 Carole Harris, GMP Honours and Australian Youth Ambassador, Uni. Sydney, 1999-2001, Supervisor  
 Sharyn Rayner, GMP Honours, University of Sydney, 1999-2000, Supervisor  
 Catherine Dobbin, MPH Treatise, University of Sydney, 2002-03, Supervisor  
 Femke Koedijk, Research Internship & Treatise, Masters of Health Sciences, University of Maastricht, 2002-3, Supervisor  
 Anne Foyer, Public Health Officer, NSW Department of Health, 2003, Supervisor

#### Ongoing other supervision

Camilla Hoyos, MPH Honours Treatise, University of Sydney, 2007, Supervisor

Leanne Poulos, MPH Honours Treatise, University of Sydney, 2007, Supervisor

Claudia Dobler, NHMRC CCRE Training Fellow, Liverpool Hospital, 2007, Supervisor

### **Theses marked**

Douglas James Elliott, candidate for PhD Department of Public Health and Community Medicine, University of Sydney	1997
Kamille Tikaram, candidate for M Comm Health College of Health Sciences, University of Sydney	1998
Anne-Maree Davis, candidate for Master of Health Science (Asthma Education) Charles Sturt University	2000
Preeti A. Joshi, candidate for PhD Department of Paediatrics, University of Sydney	2000
Jolanta Ciuk, candidate for PhD Department of Environmental Health, School of Medicine, Flinders University of South Australia	2001
Bin Jalaludin, candidate for PhD Department of Public Health and Community Medicine, University of Sydney	2001
Geoffrey Morgan, candidate for PhD Department of Public Health and Community Medicine, University of Sydney	2001
Elizabeth Geelhoed, candidate for PhD Departments of Medicine and of Population Health, University of Western Australia	2003
Janice McKay, candidate for Master of Psychology (Clinical) University of Newcastle	2004
Jacqui Joseph-Bowen, candidate for PhD School of Paediatrics and Child Health, University of Western Australia	2005
Narges Bagheri Lankarani, candidate for PhD School of Health Sciences, Univeristy of Wollongong	2006
Anamika Jithoo, candidate for PhD Department of Medicine, University of Cape Town	2007
David Hughes, candidate for PhD School of Medicine, University of Queensland	2008

### **Teaching**

I have lectured and tutored in epidemiology, biostatistics and medicine to post-graduate and undergraduate students at the University of NSW, University of Sydney, and University of London since 1989. Responsibilities have included course design, development of course material, writing and delivering lectures, conducting various series of tutorials, bedside teaching and student assessment.

### **Undergraduate and graduate teaching**

At **University of New South Wales** my undergraduate teaching is mainly in respiratory medicine. My responsibilities, which have been undertaken in each year since 1995, include:

- ❑ lectures on topics in respiratory medicine to year 3, 4 and 6 students on campus
- ❑ four to six seminars each year on respiratory medicine for years 4 and 6 students at Liverpool Hospital
- ❑ clinical teaching of UNSW and visiting elective students attached to the respiratory unit at Liverpool Hospital

Since 2002, I have supervised and tutor Med 4 students attached to the respiratory unit at Liverpool Hospital and have also co-ordinated the Year 4 Campus-based symposium on respiratory disease.

In previous years I have participated in Final Year and Year Four Clinical Exams and Trial exams.

At the **University of Sydney** I have been a tutor in the Evidence Based Medicine program for Year 1 and/or Year 2 students in the USyd Medical Program since 1998. In the past I have lectured on public health aspects of respiratory disease to the students in the Undergraduate Medical Program.

### **International courses given**

- International Respiratory Epidemiology Workshop, Kuala Lumpur, 1996. Course co-ordinator.
- International Respiratory Epidemiology Workshop, Manila, 2<sup>nd</sup> - 4<sup>th</sup> February, 1998, Course co-ordinator
- Epidemiology and Research Methods Workshop for Master of Medicine students (MONAHP project), Port Moresby, Papua New Guinea, 13<sup>th</sup> – 16<sup>th</sup> August, 1998. Course co-ordinator.

For each of these courses I

- ☐ designed the course (based on an outline from previous courses),
  - ☐ co-ordinated the faculty (between four and seven people),
  - ☐ designed some of the teaching material,
  - ☐ gave several lectures and tutorials
  - ☐ undertook a course evaluation
  - ☐ reported on the course outcome
- First Beijing International Course in Research Methods for the Promotion of Lung Health. (IUATLD, USAID and Chinese Tuberculosis Association), Beijing, China. 22<sup>nd</sup> – 30<sup>th</sup> October, 1999.

For this course I designed some of the teaching materials and gave lectures and tutorials.

### **Local Courses Given**

Study Design, Implementation and Analysis Workshop, CRC for Asthma, Brisbane, 16-17 March, 2001

Update of Tuberculosis for Advanced Trainees in Respiratory Medicine and Infection Diseases, Sydney, March 2005

For both these courses I proposed the course, co-ordinated it, and presented some of the material.

### **Peer review activities**

I am or have been a member of the following grant review boards:

- Project Review Committee for FIDELIS (Fund for Innovative DOTS Expansion through Local Initiatives to Stop TB), for International Union Against Tuberculosis and Lung Disease, 2003 and 2004
- NHMRC Grant Review Panel 3B (Respiratory/Foetal/Paediatric) 2001 and 2002
- Clinical Research Subcommittee of Research Awards Advisory Committee, Community Health and Tuberculosis Australia (CHATA) 1999 - 2003
- Research Advisory Committee, Asthma Foundation of NSW since 2001

I am an Associate Editor of International Journal of Tuberculosis and Lung Diseases

I have undertaken peer review for national and international journals, funding bodies and conferences. On average I review one to two manuscripts or grants per month. These have included:

### **Journals**

American Journal of Respiratory and Critical Care Medicine, Australian and NZ Journal of Medicine, Australian and NZ Journal of Public Health, Biodrugs, Clinical and Experimental Allergy, Cochrane Collaboration, Controlled Clinical Trials, European Respiratory Journal, Journal of Allergy and

Clinical Immunology, International Journal of Biometeorology, Journal of Clinical Epidemiology, Journal of Paediatrics and Child Health, Medical Care (American Public Health Assoc), Medical Journal of Australia, Pediatric Pulmonology, Quality of Life Research, Respiriology, Thorax.

The editors of Medical Care (American Public Health Association) acknowledged me as in the top 5% of reviewers for their journal over the period 1996 - 2001

### **Funding Bodies**

Asthma and Respiratory Foundation of NZ, Asthma Foundation of NSW, Asthma Foundation of Queensland, Asthma Foundation of Victoria, Asthma Foundation of WA, Children's Hospital Small Grants Scheme, Cystic Fibrosis Fnd of Australia, Health Research Council of NZ, Healthway (WA), National Health & Medical Research Council, Royal Children's Hospital Research Institute, Sir Charles Gairdner Hospital Research Fund, Victorian Health Promotion Fnd; Wellcome Foundation; Thoracic Society of Australia and New Zealand

### **Conference Abstracts**

I have reviewed conference abstracts for the World Asthma Meeting (1998), the World Lung Congress (2000), the American Thoracic Society (2002 and 2003) and the Thoracic Society of Australia and New Zealand (1998-2002).

### **Wider community**

I have performed assessments of the **health impact of predicted air quality changes for Environmental Impact Statements** for the Proposed Second Sydney Airport, the Cross-City Tunnel, and the Lane Cove tunnel. I have participated in the assessment of the health impacts of the M5 East Tunnel (after construction).

The **International Respiratory Epidemiology courses**, in which I have participated (see above), are intended to assist clinicians and public health doctors in our region to implement scientifically rigorous research in their own fields of practice.

I have given several **symposia** to general and professional audiences on respiratory issues, particularly in relation to air pollution.

I am regular expert commentator in print and electronic media on matters relating to asthma, air quality and respiratory health.

### **Previous, Current and Proposed Research**

The major theme of my research career has been application of rigorous but imaginative epidemiological research methods and biostatistical analytical methods to public health, clinical and basic science problems in respiratory medicine. My particular skills are in epidemiological methods but my training and service roles as a respiratory physician, a member of advisory boards, and head of a department of respiratory medicine and tuberculosis service, together with collaborations with basic scientists, have placed me in a strong position to identify and address a broad range of important questions in this field. The breadth of my research outputs, which focus on asthma and tuberculosis, but have extended into sleep medicine, COPD and cystic fibrosis, is evidence of the value my colleagues place in my role as a research collaborator. My involvement as an investigator in the CRC for Asthma and Airways, the CCRE for Respiratory and Sleep Medicine and the proposed Australian Sleep Health Clinical Trials Network is further evidence of this role.

### **Highlights of My Research Career**

#### **Development of the Asthma Quality of Life Questionnaire**

In the late 1980s the concept of holistic outcome measures for clinical trials in chronic diseases, such as asthma, was in its infancy. During the course of my PhD I combined traditional psychometric methods of questionnaire design with the innovative approach of Gordon Guyatt and others to develop and validate the Asthma Quality of Life Questionnaire. This questionnaire has been used in clinical trials throughout the world and the initial papers have been cited 136 and 62 times, respectively. The

questionnaire has been translated into several languages and I continue to receive several requests each year to use this questionnaire.

### **Causes and Prevention of Asthma**

There is evidence that environmental factors contribute to the aetiology of asthma and that it is potentially preventable. Most of my research career has focused on identifying environmental factors that influence the onset, persistence and severity of asthma. This started during my PhD when I undertook a randomised controlled trial of a house dust mite avoidance intervention for the treatment of established asthma. Although the trial showed no clinically important benefit, this was an important finding for clinicians and researchers.

Since that trial I have taken a broader view of the role of the environment in aetiology of asthma. A series of cross-sectional, case-control and cohort studies in Sydney and in rural towns in New South Wales have examined the influence of *Alternaria* mould, dietary fatty acids, thunderstorms, BCG vaccination, the farming environment, exposure to cats, and indoor gas appliances in the aetiology of asthma. Three of my PhD students (Michelle Haby, Sara Downs, and Brett Toelle) and two other PhD students (Wei Xuan and Teresa Mitakakis) have participated in this work along with one post-doctoral fellow (Gea De Meer).

The investigation of a thunderstorm-related epidemic of exacerbations of asthma was particularly illuminating. We demonstrated that the coincidence of a thunderstorm outflow and high levels of airborne rye grass pollen places rye grass allergic individuals at great risk of a severe episode of asthma, even if they have not experienced asthma previously and especially if they are not protected by taking inhaled corticosteroids. We demonstrated that this phenomenon occurs commonly in late spring and summer in rural New South Wales. This finding led to an important health promotion campaign in the affected area and, more fundamentally, established the importance of high dose allergen exposure in initiating asthma in sensitised individuals. A Public Health Office trainee (Seham Girgis) participated in this research.

My major undertaking in this field has been the Childhood Asthma Prevention Study, which commenced in 1997 and has been funded by four successive NHMRC project grants. This is a randomised controlled trial of two interventions, house dust mite avoidance and dietary fatty acid modification, both initiated at birth and continued for the first five years of life, in 600 new-born children at high risk of asthma. Although preliminary and encouraging results from this trial have been reported, the five year assessments will not be reported until later this year. In addition to clarifying the role of the house dust mite exposure and dietary fatty acids in the aetiology of asthma, the study provides important opportunities to study, in detail, the ontogeny of respiratory and allergic phenomena and the effect of other observed environmental and genetic factors on these phenomena. For example, collaborative research on lymphocyte cytokine responses to allergen stimulation *in vitro*, dietary antioxidants and breast feeding, ambient air pollution, and genetic polymorphisms is being undertaken in the CAPS cohort. A post-doctoral fellow worked on this project.

### **Epidemiology of Asthma Management**

During my post-doctoral fellowship in London I designed and implemented the evaluation of a community-based intervention for the management of asthma in Greenwich. This large community based survey formed the basis for subsequent studies in Australia. On arrival at Liverpool Hospital I found poor asthma management was a feature of people attending the Emergency Department for exacerbations of asthma, a finding that was amplified when I used data from the NSW Health Survey to show very low levels of use of effective asthma management techniques in a community-based sample of people with asthma.

### **Monitoring Asthma**

My colleague Dr Jennifer Peat clearly demonstrated a large rise in the prevalence of asthma among children during the 1980s and early 1990s. We have now followed this up with a number of other studies which show that this trend has plateaued in recent years. One large cohort study has been used to examine childhood predictors of the outcome of asthma in adult life.

Since 2002, a major component of my research has been identifying and monitoring nation-wide indicators for asthma with the Australian Centre for Asthma Monitoring.

### **Tuberculosis**

Approximately 80% of tuberculosis in Australia occurs among persons born overseas. I have used

linkage analysis to examine the incidence of tuberculosis in various cohorts of refugees and migrants. Within these cohorts I have conducted case control studies to identify risk factors for reactivation of pulmonary tuberculosis. My recent PhD student (Linh Nguyen) participated in this research.

### **Future Directions**

At this mid-stage of my career I see the need to extend beyond my existing role as an individual and collaborative researcher to one who finds and develops new senior respiratory researchers with skills in epidemiological research methods and the capacity to link into the clinical, public health and basic science domains. The specific nature of the research is described in Section 12 (page 42, “Proposed Research”). The vehicles for this training of post-doctoral researchers will be the CCRE for Respiratory and Sleep Medicine and the CRC for Asthma and Airways. I also expect the Australian Centre for Asthma Monitoring, which I direct, will continue to be funded. Now that it is well established, it provides an excellent environment for training public health researchers. This year I intend to apply, with colleagues, for a Capacity Building Grant in Population Health Research, focusing on public health aspects of respiratory diseases. Finally, it is my intension to increase the extent of my international collaborations over the next five years, with a view to attracting high quality post-doctoral fellows to join our research group.

## **Collaborations**

### **Major External Collaborations**

Professor Peter Burney, Kings College London

During my post-doctoral fellowship (1992 to 1994), I undertook three major projects with Professor Burney:

- An evaluation of a community-based asthma management program
- An case control study examining the effect of selenium on the risk of asthma
- An analysis of UK statistics for respiratory disease during the 20<sup>th</sup> century

During 2004, Professor Burney spent one week as a visitor with my group at the Woolcock Institute and was a keynote speaker at our annual Think Tank.

Professor Stewart Dunn, Professor of Psychological Medicine, Royal North Shore Hospital

Professor Dunn was a collaborator in the development of the Asthma Quality of Life Questionnaire. Subsequently, we jointly supervised a PhD student (Brett Toelle).

Assoc. Professor Jennifer Peat and Professor Craig Mellis, Clinical Epidemiology Unit, Children’s Hospital Westmead and Professor Stephen Leeder, formerly Dean, Faculty of Medicine, University of Sydney.

Dr Peat left the Epidemiology group at the Woolcock (then known as the Institute of Respiratory Medicine) in 1997 and I have continued to collaborate with her and with Professors Mellis and Leeder in conducting the Childhood Asthma Prevention Study since that time. My collaborations with Dr Peat have extended to other environmental epidemiological studies in asthma.

Professor Warwick Britton, Head of the Discipline of Medicine, Central Clinical School, University of Sydney.

In recent years I have had a particularly fruitful collaboration with Professor Britton, who has an international reputation in the field of mycobacterial immunology and whose expertise extends to many aspects of cell mediated immunity. Our collaborations have encompassed studying in vitro T cell cytokine responses to allergen stimulation to studies on BCG vaccination and the genetics of susceptibility to tuberculosis. In addition, I have held and/or currently hold two NHMRC project grants and three non-NHMRC project grants with Professor Britton.

Dr George Car, School of Biological Sciences, Charles Sturt University, Dr John Colquhoun, Australian Bureau of Meteorology and Mr Tony Kolbe, Director of Public Health, Greater Murray



Area Health Service.

The main subject of my collaboration with Drs Car and Colquhoun and Mr Kolbe was the investigation of the thunderstorm-related epidemics of asthma. The findings of this research had important implications for public health and for basic understanding of the mechanisms of asthma. Dr Car also collaborated on studies of *Alternaria* in rural NSW.

Professor Lyn Gilbert, Professor of Microbiology, Westmead Hospital

I co-supervised a PhD student (Linh Nguyen) with Professor Gilbert and we hold one non-NHMRC project grant. One invited review has been published

### **Minor External Collaborations**

Dr Miguel Perpina and Professor Amparo Belloch, University of Valencia, Spain

I collaborated with Dr Perpina Prof. Belloch in validating the Spanish translation of the Asthma Quality of Life Questionnaire.

Professor Mark Harris, Professor of General Practice, University of New South Wales.

I collaborated with Professor Harris in conducting a randomised controlled trial of a nursing intervention for patients with COPD.

Professor Peter Gibson, John Hunter Hospital, Newcastle

I am a co-investigator on the CCRE for Respiratory and Sleep Medicine and the CRC for Asthma with Professor Gibson.

### **Internal Collaborations**

Dr Euan Tovey, Head of the Allergen Group, Woolcock Institute of Medical Research

I have collaborated with Dr Tovey over the last 15 years, predominantly in examining the effect of house dust mite exposure on asthma and allergic disease.

Dr Cheryl Salome and Dr Helen Reddel, Clinical Mechanisms Group, Woolcock Institute of Medical Research

I have collaborated with Dr Salome and Dr Reddel in studies examining markers of asthma severity and in clinical studies

Associate Professor Peter Bye, Department of Respiratory Medicine, Royal Prince Alfred Hospital.

I have collaborated with Professor Bye in a number of recent studies on cystic fibrosis.

Professor Ron Grunstein, Department of Respiratory Medicine, Royal Prince Alfred Hospital

I have collaborated with Professor Grunstein in studies on sleep medicine. We are co-chief investigators in the CCRE for Respiratory and Sleep Medicine and in the Australian Sleep Health Clinical Trials Network. I have co-supervised two PhD students with him.

## **Research grant support**

### **Scholarships and Fellowships**

- ◆ NSW Department of Health Postgraduate Medical Research Scholarship, 1989.
- ◆ NH&MRC Postgraduate Medical Research Scholarship, 1990-2.
- ◆ Norman Rose Memorial Travelling Scholarship, Sydney Hospitalers, 1992
- ◆ Lillian Roxon Memorial Travel Grant, Asthma Foundation of Victoria, 1992
- ◆ Cottrell Fellowship, Royal Australasian College of Physicians, 1992-3.
- ◆ Travelling Fellowship, Asthma Foundation of NSW, 1992-4
- ◆ Rolf Edgar Lake Research Fellow, University of Sydney, 1997-2000

- ◆ NHMRC Practitioner Fellowship 2001-2010.
- ◆ European Respiratory Society Visiting Professorship

### ***Project grants***

<u>Title</u>	<u>Investigators</u>	<u>Source</u>	<u>Years</u>	<u>Funds (\$)</u>
1. House dust mite allergen and asthma	G Marks A Woolcock	Asthma Foundation of NSW	1990	
2. Exposure chamber studies of nitrogen dioxide in asthmatic subjects	A Woolcock C Mellis G Marks C Salome	National Health and Medical Research Council (NHMRC)	1992	\$94,980
3. Evaluation of a community-based intervention to improve the management of asthma.	P Burney J Webb G Marks	Medical Research Council (UK)	1993-95	UKP 209,556
4. Perception of respiratory discomfort during induced bronchoconstriction in patients with asthma	G Marks P Barnes D Yates	National Asthma Campaign (UK)	1993-94	UKP 23,355
5. Development of an information system and outcome measures for an asthma management programme	G Marks A Stuckey A Bauman S Ieraci	NSW Health (Health Outcomes Grant)	1995-96	\$53,530
6. Five Burkard Spore traps (equipment)	JK Peat PA McGee ER Tovey GB Marks	NHMRC Equipment grant (Reg Key 961399)	1996	\$29,916
7. The impact of SE Asian migration on tuberculosis control in low prevalence areas.	G Marks G Stewart E Sullivan S Simpson	Community Health and Anti-tuberculosis Association (CHATA)	1996	\$33,000
8. Relation between Alternaria exposure and the severity of asthma	J Peat P McGee G Marks S Downs	NHMRC (Regkey 970754)	1997-1999	\$78,447 \$80,496 \$82,544
9. Is the perception of bronchoconstriction enhanced by asthmatic inflammation and reduced by smoking	A Woolcock C Salome G Marks	NHMRC (Regkey 970723)	1997-1999	\$42,278 \$44,257 \$46,238
10. Prevention of asthma in high risk infants	J Peat G Marks C Mellis S Leeder	NHMRC / PHRDC (Regkey 974097)	1997-1998	\$172,865 \$220,339

11. Prevention of asthma in high risk infants	G Marks J Peat C Mellis S Leeder	NSW Health Department	1997-1999	\$175,339 \$141,315
12. Domestic control of house-dust mite allergen levels in children's beds	E Tovey J Peat G. Marks	Asthma Foundation of NSW (G3/97)	1997	\$37,000
13. Effect of smoking on sensory nerves and the perception of breathlessness.	C Salome R Bittoun G. Marks	Community Health and Anti-Tuberculosis Assoc. (CHATA)	1997	\$33,000
14. Tuberculosis risk in screened migrants and refugees	G Marks G. Stewart E Sullivan S Simpson	Community Health and Anti-Tuberculosis Assoc. (CHATA)	1997	\$33,000
15. Role of outdoor aeroallergen exposure in hospitalisations for asthma	G Marks E Tovey NG Car S Downs	Asthma Foundation of NSW	1998	\$50,000
16. Tuberculosis risk in screened migrants and refugees	G Marks G. Stewart E Sullivan S Simpson	Community Health and Anti-Tuberculosis Assoc. (CHATA)	1998	\$33,000
17. Examination of the clinical utility of exhaled nitric oxide in the management of asthma following an acute exacerbation	G. Marks D Yates	Health Research Foundation, Sydney South West	1998 /99	\$20,436
18. Does neonatal BCG vaccination reduce the subsequent incidence of allergic sensitisation?	GB Marks WJ Britton AJ Woolcock	NHMRC (Reg Key 991017)	1999-2001	\$95,148 \$99,303 \$103,457
19. Does neonatal BCG vaccination reduce the subsequent incidence of allergic sensitisation?	GB Marks	CHATA	1999	\$5,000
20. Prevention of asthma in high risk infants	JK Peat GB Marks CM Mellis SR Leeder	NHMRC (Reg Key 991101)	1999-2001	\$247,870 \$239,403 \$240,138
21. Influence of ante-natal allergen exposure on T cell responses to aeroallergen at birth	G Marks W Britton A Bean	Asthma Foundation of NSW	1999	\$23,476
22. Childhood Asthma	G. Marks JK Peat	CRC for Asthma	1999 –	\$1,086,000

Prevention Study	CM Mellis SR Leeder		2005	
23. Clinical and molecular epidemiology of tuberculosis	GB Marks GL Gilbert	SWS Research Foundation	2000	\$20,000
24. Molecular genetics study of asthma and atopy using the CAPS cohort	GJ Stewart JK Peat CM Mellis GB Marks GH Bennetts DA Fulcher	Asthma Fnd of NSW	2001	\$50,000
25. Molecular genetics study of asthma and atopy using the CAPS cohort	GJ Stewart JK Peat CM Mellis GB Marks B Bennetts DA Fulcher SR Leeder	Financial Markets Foundation for Children	2001-2002	\$140,000
26. Childhood asthma prevention study	JK Peat GB Marks SR Leeder CM Mellis	NHMRC (211081) K2701 N1406	2002-2004	\$150,000 \$150,000 \$150,000
27. Improved targeting of intervention for prevention of asthma: Belmont cohort	GB Marks BG Toelle W Xuan	University of Sydney (Sesqui R&D scheme)	2002	\$40,000
28. Improved targeting of interventions for the prevention of asthma: Belmont cross-sectional study	GB Marks BG Toelle W Xuan	GEMRF	2002	\$50,000
29. The role of endotoxin exposure in the development of asthma in infants	ER Tovey GB Marks JK Peat	Ernest Heine Foundation	2003	\$53,000
30. Evaluation of genetic and environmental risk factors for progression of active tuberculosis in the Liverpool cohort	GB Marks WJ Britton	Health Research Foundation, Sydney South West	2003	\$25,000
31. Genetic and Environmental risk factors for progressive to active tuberculosis in the Liverpool cohort	WJ Britton GB Marks B Saunders	CHATA Project Grant K9424 R6285	2004	\$44,701
32. Environmental influences on allergic airways disease from birth to 8yrs: long-term outcomes of a randomised trial (CAPS)	GB Marks AJ Kemp ER Tovey WJ Britton G Jones SR Leeder	NHMRC #352409  Account code: K9432 N1770	2005 - 2007	\$159,250 \$181,500 \$181,500

33. Exploration of exposures associated with bedding that serve as risks for childhood allergy and asthma	E Tovey A Kemp G Marks	NHMRC #352427	2005 - 2006	\$149,500 \$109,625
34. Centre for Clinical Research Excellence in Respiratory and Sleep Medicine	R Grunstein G Marks P Gibson and others	NHMRC #264598	2005- 2009	\$400,000 per annum
35. Quantifying the effects of criteria air pollutants on child health – setting Australian air quality standards	GM Williams RW Simpson GB Marks B Jalaludin	ARC Linkage Grant LP0562551 and National Environment Protection Council	2005 - 2008	\$117,962 \$240,462 \$134,500 \$12,000 + \$250,000 (NEPC)
36. Australian Sleep Health Clinical Trials Network	R Grunstein D. McEvoy L. Palmer G. Marks R. Pierce N. Rogers	Enabling Grant Clinical Trials Resources  NHMRC # 343020	2005 2006 2007 2008 2009	\$648,000 \$604,000 \$590,000 \$613,000 \$635,000
37. Lane Cove Tunnel Health Impact Assessment	G. Marks M. Staff V. Sheppard C. Cowie	CRC for Asthma and Airways	2005- 2010	\$224,354 \$247,697 \$249,228 \$454,676 \$72,000
38. A cluster randomised controlled trial of specialised nurse and GP partnership for care of COPD	N. Zwar E. Comino G. Marks S. Middleton	NHMRC General Practice Clinical Research Program Grant  # 400915	2006 2007 2008	\$176,475 \$189,775 \$76,000
39. Practitioner Fellowship (PF2)	G. Marks	NHMRC Practitioner Fellowship # 402827	2006 – 2010	\$68,000 pa
40. Development of metrics for individual exposure assessment to traffic related air pollution	G. Marks C Cowie	Department of Environment & Heritage. Clean Air Research Program	2006 - 2008	\$159,000
41. Burden of obstructive lung disease in Australia	G. Marks M. Abramson A. James G. Maguire B. Toelle R. Wood-Baker	NHMRC Project Grant # 457385  Account code: K9432 N1961	2007 - 2009	\$737788
42. Clinical impact of	S. Bell	NHMRC	2007 -	\$206,000

clonal <i>Pseudomonas aeruginosa</i> in cystic fibrosis	P. Bye B. Rose C. Harbour G. Marks P. Robinson	Project Grant # 455919	2009	\$169,000 \$149,000
43. Metabolic syndrome, diet and obstructive sleep apnoea at age 10 years: predictive models from a birth cohort	K Webb G Marks T Gill L Baur S Leeder I Rutishauser	University of Sydney Bridging Grant	2007	\$50,000
44. Diet, asthma and obesity; predictive models from a birth cohort	K Webb G Marks T Gill I Rutishauser	Asthma Foundation of NSW	2007	\$19,000
45. The diagnosis of obstructive sleep apnoea in primary care	R Grunstein K Wong P Cistulli G Marks N Zwar	NHMRC Project grant #512497	2008 - 2010	\$149,750 \$139,750 \$139,750
46. Transitions in respiratory and metabolic outcomes during puberty in the CAPS birth cohort	G Marks	University of Sydney Strategic Research Grant	2008	\$50,000
47. Does endotoxin explain the apparent protection against asthma associated with high HDM allergen exposure during the first five years of life	G Marks E Tovey B Toelle C Almqvist	Asthma Foundation of NSW	2008	\$50,000
48. Factorial Trial of Hypertonic Saline and Azithromycin to Treat Bronchiectasis	P Bye S Bell J McCormack M Elkins G Marks B Rose	NHMRC Project grant #571315	2009 – 2011	\$305,500 \$185,500 \$165,500 Requested
49. Sex-related changes in asthma during the transition through puberty in the CAPS birth cohort	G Marks B Toelle S Leeder C Cowell E Tovey C Almqvist	NHMRC Project #570919	2009 - 2013	\$257,250 \$242,250 \$272,250 \$232,250 \$270,500 Requested
50. A RCT of case finding by practice nurses of COPD, and early intervention by a GP-practice nurse team.	N Zwar G Marks S Middleton P Van Schayk A Crockett S Dennis	NHMRC Project #568618	2009 - 2011	\$414,125 \$229,125 \$141,750 Requested

## Publication list

### **Refereed Journal Articles (Original Research)**

1. Breit SN, Cairns D, Szentirmay A, Callaghan T, Murray D, Wacher T, Gibson PG, Marks GB, Bryant DH, Yeates M, Fernandez V, Penny R. The presence of Sjogren's syndrome is a major determinant of the pattern of interstitial lung disease in scleroderma and other connective tissue diseases. *J Rheumatol* 1989; 16:1043-49.
2. Marks GB, Salome CM, Woolcock AJ. Asthma and allergy associated with occupational exposure to ispaghula and senna products in a pharmaceutical workforce. *Am Rev Respir Dis* 1991; 144:1065-69.
3. Tovey ER, Marks GB, Matthews M, Green WF, Woolcock AJ. Changes in mite allergen Der p I in house dust following spraying with a tannic acid/acaricide solution. *Clin Exp Allergy* 1992; 22:67-74.
4. Green WF, Marks GB, Tovey ER, Toelle BG, Woolcock AJ. House dust mites and mite allergen in public places. *J Allergy Clin Immunol* 1992; 89:1196-97.
5. Marks GB, Dunn SM, Woolcock AJ. A scale for the measurement of quality of life in adults with asthma. *J Clin Epidemiol* 1992; 45:461-74.
6. Marks GB, Dunn SM, Woolcock AJ. An evaluation of an asthma quality of life questionnaire as measure of change in adults with asthma. *J Clin Epidemiol* 1993; 46:1103-11.
7. Marks GB, Mellis CM, Peat JK, Woolcock AJ, Leeder SR. A profile of asthma and its management in a New South Wales provincial centre. *Med J Aust* 1994; 160:260-68.
8. Marks GB, Tovey ER, Green W, Melanie S, Salome CM, Woolcock AJ. House dust mite allergen avoidance: a randomised controlled trial of surface chemical treatment and encasement of bedding. *Clin Exp Allergy* 1994; 24:1078-83.
9. Marks GB, Tovey ER, Green WF, Shearer M, Salome CM, Woolcock AJ. The effect of changes in house dust mite allergen exposure on the severity of asthma. *Clin Exp Allergy* 1995; 25:114-18.
10. Marks GB, Tovey ER, Toelle BG, Wachinger S, Peat JK, Woolcock AJ. Mite allergen (Der p I) concentration in houses and its relation to the presence and severity of asthma in a population of Sydney schoolchildren. *J Allergy Clin Immunol* 1995; 96:441-448.
11. Marks GB, Tovey ER, Peat JK, Salome CM, Woolcock AJ. Variability and repeatability of house dust mite allergen measurement: implications for study design and interpretation. *Clin Exp Allergy* 1995; 25:1190-1197.
12. Salome CM, Brown NJ, Marks GB, Woolcock AJ, Johnson GM, Nancarrow PC, Quigley S, Tiong J. Effect of nitrogen dioxide and other combustion products on asthmatic subjects in a home-like environment. *Eur Respir J* 1996; 9:910-18.
13. Marks GB, Yates DH, Sist M, Ceyhan B, De Campos M, Scott DM, Barnes PJ. Respiratory sensation during bronchial challenge testing with methacholine, sodium metabisulphite, and adenosine monophosphate. *Thorax* 1996; 51:793-98.
14. Marks GB, Burney PGJ, Premaratne UN, Simpson J, Webb J. Asthma in Greenwich: impact of the disease and current management practices. *Eur Resp J* 1997; 10:1224-1229.
15. Premaratne UN, Marks GB, Austin EJ, Burney PGJ. A reliable method to retrieve Accident and Emergency data stored on a free text basis. *Respir Med* 1997; 91:61-66.
16. Perpina M, Belloch A, Marks GB, Martinez-Moragon E, Pascual LM, Compte L. Assessment of the reliability, validity and responsiveness of a Spanish asthma quality of life questionnaire. *J Asthma* 1998; 35:513-21.
17. Reddel HK, Ware SI, Salome CM, Marks GB, Jenkins CR, Woolcock AJ. Standardisation of ambulatory PEF monitoring - the importance of recent  $\beta_2$ -agonist inhalation. *Eur Respir J* 1998; 12: 309-314.

18. Bai J, Peat JK, Berry G, Marks GB, Woolcock AJ. Questionnaire items which predict asthma and other respiratory conditions in adults. *Chest* 1998; 114:1343-48.
19. Marks GB, Kjellerby J, Luczynska CM, Burney PGJ. Serum eosinophil cationic protein: distribution and reproducibility in a randomly selected sample of men living in rural Norfolk, UK. *Clin Exp Allergy* 1998; 28:1345-50.
20. Reddel HK, Ware SI, Marks GB, Jenkins CR, Woolcock AJ. Do asthma exacerbations represent poor asthma control? *Lancet* 1998; 353:364-69.
21. Salome CM, Roberts AM, Brown NJ, Dermand J, Marks GB, Woolcock AJ. Exhaled nitric oxide measurements in a population sample of young adults. *Am J Respir Crit Care Med* 1999; 159:911-16.
22. Premaratne UN, Sterne JAC, Marks GB, Webb JR, Azima H, Burney PGJ. Cluster randomised trial of an intervention to improve the management of asthma: Greenwich Asthma Study. *Br Med J* 1999; 318:1251-1255.
23. Bai J, Marks GB, Stewart GJ, Simpson SE, Sullivan EA. Specificity for notification of tuberculosis among screened refugees in NSW. *Aust NZ J Public Health* 1999; 23:410-13.
24. Razmovski V, O'Meara TJ, Hjelmroos M, Marks GB, Tovey ER. Adhesive tapes as capturing surfaces in Burkard sampling. *Grana* 1999; 37 305-10.
25. Marks GB, Heslop W, Yates DH. Pre-hospital management of exacerbations of asthma: relation to patient and disease characteristics. *Respirology* 2000; 5:45-50.
26. Xuan W, Peat JK, Toelle BG, Marks GB, Berry G, Woolcock AJ. Lung function growth and its relation to airway hyperresponsiveness and recent wheeze: results from a longitudinal population study. *Am J Respir Crit Care Med* 2000; 161:1820-24.
27. Salome CM, Marks GB, Savides P, Xuan W, Woolcock AJ. The effect of insecticide aerosols on lung function, airway responsiveness and symptoms in asthmatic subjects. *Eur Respir J* 2000; 16: 38-43.
28. Vanlaar C, Peat JK, Marks GB, Rimmer JR, Tovey ER. Domestic control of house dust mite allergen levels in children's beds. *J Allergy Clin Immunol* 2000; 105:1130-33.
29. Girgis ST, Marks GB, Downs SH, Kolbe A, Car NG, Paton R. Thunderstorm-associated asthma in an inland town in south eastern Australia. Who is at risk? *Eur Resp J* 2000; 16: 3-8.
30. Reddel HK, Jenkins CR, Marks GB, Ware SI, Xuan W, Salome CM, Badcock C-A, Woolcock AJ. Optimal asthma control, starting with high doses of inhaled budesonide. *Eur Respir J* 2000; 16:226-35.
31. Mitakakis TZ, Tovey ER, Xuan W, Marks GB. Personal exposure to allergenic pollens and mould spores in inland New South Wales, Australia. *Clin Exp Allergy* 2000; 30:1733-39.
32. Haby MM, Marks GB, Peat JK, Leeder SR. Day care attendance before the age of two protects against atopy in preschool age children. *Pediatr Pulmonol* 2000; 30:377-84.
33. Marks GB, Bai J, Simpson SE, Sullivan EA, Stewart GJ. Incidence of tuberculosis among a cohort of tuberculin positive refugees in Australia. Re-appraising the estimates of risk. *Am J Respir Crit Care Med* 2000; 1851-54.
34. Marks GB, Jalaludin BB, Williamson M, Atkin NL, Bauman A. Use of "preventer" medications and written asthma management plans among adults with asthma in New South Wales. *Med J Aust* 2000; 173:407-410.
35. Tovey ER, McDonald LG, Peat JK, Marks GB. Domestic mite species and Der p 1 allergen levels in nine locations in Australia. *Allergy & Clinical Immunology International* 2000; 12:226-231.
36. Downs SH, Marks GB, Sporik R, Belousova EG, Car NG, Peat JK. Continued increase in the prevalence of asthma and atopy. *Arch Dis Child* 2001; 84:20-23.
37. Leuppi JD, Salome CM, Jenkins CR, Anderson SD, Xuan W, Marks GB, Koskela H, Brannan JD, Freed R, Andersson M, Chan H-K, Woolcock AJ. Predictive markers of asthma



- exacerbation during stepwise dose reduction of inhaled corticosteroids. *Am J Respir Crit Care Med* 2001; 163:406-12.
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## **Reports**

1. Report on Survey of Health and Social Status of Aged Population of South Sydney Municipality. 1978. (I was sole author)
2. Report of the Working Group on Prevention of Asthma for the NSW Health Department. Asthma and the environment: perspectives on the prevention of asthma. 1997 (GBM was chairman of working group)
3. Marks GB. Air Quality and Community Health. Technical Paper on Community Health for Second Sydney Airport Environmental Impact Statement 1997
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5. Salome CM, Marks GB. The effect of low irritant insecticide aerosol on lung function, airway hyperresponsiveness and symptoms in asthmatic subjects. Report prepared for R&C Products Pty Ltd, April, 1998.
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8. Marks GB. Health effects of air quality impacts. Cross City Tunnel. Report for Cross City Tunnel Environmental Impact Statement. August 2000.
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11. Marks GB. Health Effects of Air Quality Impacts: Lane Cove Tunnel. Report for Environmental Impact Statement. October 2001
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## **Four Most Significant Publications**

- Marks GB, Dunn SM, Woolcock AJ. A scale for the measurement of quality of life in adults with asthma. *J Clin Epidemiol* 1992; 45:461-74.

This was the first report of the development of the Asthma Quality of Life Questionnaire (AQLQ). A subsequent paper reported the validation of this instrument and it has since been used in clinical trials in Australia and internationally and has been translated into several languages.

- Marks GB, Colquhoun JR, Girgis ST, Hjelmroos-Koski M, A. TAB, Hansen P, et al. Thunderstorm outflows preceding epidemics of asthma during spring and summer. *Thorax* 2001; 56:468-71.

This reports the findings on an investigation of a severe epidemic of asthma, in which 215 people attended a hospital Emergency Department within a few hours of arrival of a thunderstorm. This paper identifies those who are at risk of this event, explains the mechanism for the event, and lays the groundwork for recommendations to minimise the impact of future events. It changes current thinking about the potential for high level allergen exposure to induce asthma in allergic people who have not previously experienced asthma.

- Phoa LL, Toelle BG, Belousova EG, Marks GB. Effects of gas and other fume emitting heaters on the development of asthma during childhood. *Thorax* 2004; 59:741-45.

In this manuscript we show for the first time, that irritant exposures during the first year of life, can have respiratory consequences, manifest as wheeze and airway hyperresponsiveness, during later childhood. This has important implications for further research and, potentially, for interventions to

prevent asthma.

- Australian Centre for Asthma Monitoring. 2003. Asthma in Australia 2003. Report. Report No.: AIHW Cat. no. ACM1. Canberra: Australian Institute of Health and Welfare

This is the first report of the Australian Centre for Asthma Monitoring. It is a unique aggregation of data on asthma in Australia, derived from a wide range of government and non-government sources.